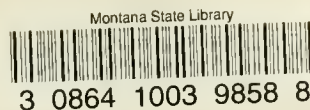


350.864  
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1973



STATE DOCUMENT  
JUN 20 1974

# ANALYSIS OF CONTRACTS AWARDED CALENDAR YEAR 1973



PREPARED BY THE  
STATE OF MONTANA  
DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU  
IN COOPERATION WITH THE  
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

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CONTRACT ANALYSES  
Calendar Year 1973

FOREWORD

The attached tabulations have been prepared from the Detailed Estimate and Contract Award sheet for all contracts awarded during the calendar year 1971. A brief explanation of each of the following tables is provided to help in the interpretation of the figures and to lessen the possibility of erroneous conclusions.

Table 1 - Summary of New and Reconstructed Roadway Only, by County and Financial District.

This table is intended to inform the user of how many actual miles of roadway were let to contract and the costs involved. It includes all items pertinent to the same section of roadway except structures.

Table 1A - Summary of Total Amounts Awarded by County and Financial District.

This table is a total of all miles and costs involved regardless of the type of project. Besides roadway costs, it includes signing, lighting, fencing and bridge projects.

Table 2 - Summary of Roadway Mileage Awarded by Systems.

The table involves the same type of construction as Table 1. Table 2, however, provides a cost per mile figure for the different systems and also provides a simple analysis of benefits by inclusion of the "cost per annual vehicle mile."

Table 3-3A-3B-3C-3D - Summary of Type of Construction.

A separate table has been prepared for each Federal Aid System with all projects including signing and Fencing classified into 10 different categories. The purpose of this table is to give a general indication of what type of construction is responsible for the major share of monies spent. For example, note the bulk of Interstate monies is spent for New Construction, whereas, the greater share for Primary and Secondary is spent for Reconstruction.



Table 4-4A-4C - Summary by Surface Type by Systems.

These tables indicate the average cost per mile of various items included in a completed roadway by type of surfacing. Caution should be exercised in using the average cost per mile data due to the small sample involved for some cost items.

Table 5 - Summary of Roadway Mileage Awarded by Number of Traffic Lanes.

This table deals with the same miles and costs involved in Tables 1 and 2.

Table 6-6A-6C-6D - Summary of Structures by Type.

These tables summarize the number of structures let by type and also provide a cost per square foot, by type of structure.

Table 7-7A-7B-7C-7D - Summary of Roadway Mileage Awarded by ADT.

The table involves only actual roadway constructed, as Tables 1, 2 and 5 and provides a relationship between the volumes of traffic, miles constructed and costs. It is possible to further develop this table to obtain a road user benefit on a vehicle mile basis.

Table 8 - Summary of Contracted and Non-contracted Costs by System.

Some items, such as railroad flagging, roadway materials, detours and traffic control devices are considered non-contract items in certain instances. The costs of such items are included in the Detailed Estimate, but not in the Contract Award Amount. This table tabulates the two costs for the users information.



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1973

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED  
JUNE 06, 1974

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	INTERSTATE SYSTEM COST	PRIMARY SYSTEM MILES	PRIMARY SYSTEM COST	SECONDARY SYSTEM MILES	SECONDARY SYSTEM COST	OTHER SYSTEMS MILES	OTHER SYSTEMS COST	ALL SYSTEMS MILES	ALL SYSTEMS COST
FLATHEAD FD #01	---	---	4.264 4.264	810,809 810,809	---	---	---	---	4.264 4.264	810,809 810,809
GLACIER FD #02	---	---	.889 .889	749,882 749,882	---	---	---	---	.889 .889	749,882 749,882
VALLEY FD #03	---	---	---	---	11.735 11.735	848,539 848,539	---	---	11.735 11.735	848,539 848,539
MC CONE RICHLAND FD #04	---	---	1.429 1.429	742,775 742,775	7.810 7.810	742,775 742,775	---	---	7.810 7.810	742,775 742,775
CASCADE CHOUTEAU FD #06	---	---	12.039 12.039	1,816,866 1,816,866	1.206 1.206	212,291 212,291	---	---	12.039 12.039	1,816,866 1,816,866
LEWIS & CLARK FD #07	---	---	---	---	2.507 2.507	491,686 491,686	---	---	2.507 2.507	491,686 491,686
MISSOULA RAVALLI FD #08	---	---	7.626 7.626	1,563,529 1,563,529	---	---	---	---	7.626 7.626	1,563,529 1,563,529
SILVER BOW FD #09	7.768 7.768	2,694,877 2,694,877	---	---	---	---	---	---	7.768 7.768	2,694,877 2,694,877
GALLATIN PARK	5.247	1,149,253	5.45 8.946	585,603 1,753,898	.197	232,050	---	---	5.989 8.948	1,966,506 1,753,898
SWEET GRASS FD #10	5.247	1,149,253	9.493	2,339,501	.831	390,217	---	---	15.571 15.571	3,878,971 3,878,971
BIG HORN CARBON FD #11	---	---	5.621 10.137	1,141,956 1,634,135	---	---	---	---	5.621 10.137	1,141,956 1,634,135
CUSTER POWDER RIVER	6.183	2,153,802	6.535 6.535	1,753,970 1,753,970	---	---	---	---	14.716 14.716	3,947,772 3,947,772





STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1973

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED  
JUNE 06, 1974

TABLE 1

COUNTY AND FINANCIAL DISTRICT FD #12	INTERSTATE MILES	SYSTEM COST	PRIMARY MILES	SYSTEM COST	SECONDARY MILES	SYSTEM COST	OTHER SYSTEMS		ALL SYSTEMS	
							MILES	CCST	MILES	COST
	3.185	2,193,802	12.443	2,865,868					20.626	5,059,670
TOTAL	21.198	5,037,932	67.238	13,908,828	24.089	2,685,508			112.525	22,632,268



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
 PLANNING AND RESEARCH BUREAU  
 SUMMARY OF TOTAL AMOUNTS AWARDED  
 BY COUNTY AND FINANCIAL DISTRICT  
 DURING CALENDAR YEAR 1973  
 TABLE 1A

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS		JUNE	06, 1974
		MILES	COST	MILES	COST	MILES	COST	MILES	COST		
FINANCIAL DISTRICT											
FLATHEAD		4.264	1,122,707					4.264	1,122,707		
LAKE			18,568						18,568		
LINCOLN			82,482						82,482		
FD #01		4.264	1,226,764					4.264	1,226,764		
BLAINE			6,395		4,629				11,024		
GLACIER		.889	754,957					.889	754,957		
HILL					32,400				32,400		
LIBERTY					406,252				406,252		
FD #02		.889	761,352		443,288			.889	1,204,640		
PHILLIPS					1,541				1,541		
VALLEY				11.735	848,539			11.735	848,539		
FD #03				11.735	850,080			11.735	850,080		
DAWSON			16,960						29,407		
MC CONE				7.810	892,220			7.810	892,220		
RICHLAND		1.429	670,470		112,411			1.429	782,881		
FD #04		1.429	687,430	7.810	1,024,078			9.239	1,711,508		
FERGUS											
FD #05					67,308				67,308		
CASCADE			965,744	1.206	212,291			1.206	1,301,716		
CHOUTEAU		12.039	123,681					12.039	2,278,517		
PONDERA			11,025						11,025		
TETON			2,060						2,060		
FD #06		12.039	985,829	1.206	229,389			13.245	3,617,416		
BROADWATER					7,601				7,601		
JEFFERSON			17,994						17,994		
LEWIS & CLARK			17,994	2.507	491,686			2.507	509,680		
FD #07				2.507	499,287			2.507	509,680		
MISSOULA			40,462		78,332			7.626	1,935,873		
RAVALLI								3.297	604,824		
FD #08			40,462		78,332			10.923	2,540,707		
DEER LODGE					8,159				8,159		
MAISON				6.245	271,535			6.245	271,535		
SILVER BOW								7.768	2,116,022		
FD #09				6.245	279,654			14.013	3,395,726		



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU  
SUMMARY OF TOTAL AMOUNTS AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1973  
TABLE 1A

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS		JUNE 66, 1974
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	
GALLATIN PARK	5.247	1,277,001	.545	598,948	.197	232,050			5.999	2,207,999	
SWEET GRASS WHEATLAND			8.948	2,024,637	.634	342,594			8.948	2,047,507	
FD #10									.634	342,594	
										353,816	
			9.493	2,623,585	.831	951,330			15.571	4,951,916	
BIG HORN											
CARBON			5.621	1,263,175					5.621	1,263,175	
STILLWATER			10.137	1,787,746					10.137	1,787,746	
YELLOWSTONE										62,828	
FD #11										62,828	
										15,631	
			15.436	3,064,642					15.436	3,064,642	
			15.758						31.194	7,769,359	
CARTER											
CUSTER										11,818	
POWDER RIVER			6.183	1,753,970					14.716	4,034,854	
ROSEBUD			5.910	1,149,451					5.910	1,149,451	
FD #12										9,524	
										9,524	
			8.183	2,924,763					20.626	5,205,647	
TOTAL	36.634	12,476,828	67.238	16,296,335	30.334	4,422,786			134.206	33,215,580	



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED BY SYSTEMS  
DURING CALENDAR YEAR 1973  
THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAYS  
TABLE 2

JUNE 06, 1974

SYSTEM	MILEAGE	TOTAL COST	COST PER MILE	ANNUAL VEHICLE MILES	COST PER ANNUAL VEHICLE MILE
RURAL					
INTERSTATE RURAL	19.798	5,690,036	287,404	14,246,315	00.359
PRIMARY RURAL	65.080	12,560,443	193,000	30,741,395	00.408
SECONDARY RURAL	23.892	2,453,458	102,689	1,257,425	01.551
OTHER					00.000
SUBTOTAL RURAL	108.770	20,703,937	190,346	46,245,135	00.447
MUNICIPAL					
INTERSTATE MUNICIPAL	1.400	347,856	248,497	1,200,120	00.289
PRIMARY MUNICIPAL	2.158	1,348,395	624,830	3,310,185	00.407
SECONDARY MUNICIPAL	.197	232,050	177,918	396,025	00.585
OTHER					00.000
SUBTOTAL MUNICIPAL	3.755	1,928,331	513,536	4,906,330	00.353
TOTAL BY SYSTEM					
INTERSTATE	21.198	6,037,932	284,834	15,446,435	00.390
PRIMARY	67.238	13,908,828	206,859	34,051,580	00.408
SECONDARY	24.089	2,685,508	111,482	1,653,450	01.624
OTHER					00.000
GRAND TOTAL	112.525	22,632,268	201,131	51,151,465	00.442

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STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1973  
BY SYSTEM  
TABLE 3

JUNE 06, 1974

TYPE OF CONSTRUCTION	INTERSTATE	
	MILES	COST
RURAL		
NEW CONSTRUCTION	9.828	3,196,497
RECONSTRUCTION		
ADD TWO LANES	9.970	2,493,539
MAJOR STRUCTURES		510,776
RESURFACE		
STAGE CONSTRUCTION	15.436	3,634,835
TRAFFIC CONTROL, SEEDING & FENCING		2,047,710
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,082
TOTAL		11,970,439
MUNICIPAL		
NEW CONSTRUCTION	1.400	347,96
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		158,493
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		506,389
ALL CONSTRUCTION		
NEW CONSTRUCTION	11.228	3,544,393
RECONSTRUCTION		
ADD TWO LANES	9.970	2,493,539
MAJOR STRUCTURES		510,776
RESURFACE		
STAGE CONSTRUCTION	15.436	3,634,835
TRAFFIC CONTROL, SEEDING & FENCING		2,206,203
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,082
TOTAL		12,476,828



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1973  
BY SYSTEM  
TABLE 3A

JUNE 06, 1974

TYPE OF CONSTRUCTION	<u>PRIMARY I</u>	
	MILES	COST
<b>RURAL</b>		
NEW CONSTRUCTION		
RECONSTRUCTION	65.080	12,560,443
ADD TWO LANES		
MAJOR STRUCTURES		1,312,427
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		545,675
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		16,288
<b>TOTAL</b>		<b>14,434,833</b>
<b>MUNICIPAL</b>		
NEW CONSTRUCTION		
RECONSTRUCTION	2.158	1,348,385
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		491,906
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		13,345
OTHER		7,866
<b>TOTAL</b>		<b>1,861,502</b>
<b>ALL CONSTRUCTION</b>		
NEW CONSTRUCTION		
RECONSTRUCTION	67.238	13,908,828
ADD TWO LANES		
MAJOR STRUCTURES		1,312,427
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		1,037,581
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		13,345
OTHER		24,154
<b>TOTAL</b>		<b>16,296,335</b>



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1973  
BY SYSTEM  
TABLE 3C

JUNE 06, 1974

TYPE OF CONSTRUCTION	SECONDARY	
	MILES	COST
RURAL		
NEW CONSTRUCTION	10.317	1,234,461
RECONSTRUCTION	13.575	1,218,997
ADD TWO LANES		
MAJOR STRUCTURES		476,299
RESURFACE		716,724
STAGE CONSTRUCTION	6.245	271,535
TRAFFIC CONTROL, SEEDING & FENCING		89,969
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,643
TOTAL		4,095,628
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION	.197	232,050
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		95,108
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		327,158
ALL CONSTRUCTION		
NEW CONSTRUCTION	10.317	1,234,461
RECONSTRUCTION	13.772	1,451,047
ADD TWO LANES		
MAJOR STRUCTURES		476,299
RESURFACE		716,724
STAGE CONSTRUCTION	6.245	271,535
TRAFFIC CONTROL, SEEDING & FENCING		185,077
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,643
TOTAL		4,422,786



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1973  
BY SYSTEM  
TABLE 3D

JUNE 06, 1974

TYPE OF CONSTRUCTION	<u>OTHER</u>	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		19,631
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		19,631
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		19,631
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		19,631





STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1973  
INTERSTATE SYSTEM

TABLE 4

JUNE 6, 1974

COST ITEM		STAGE SURFACE TYPE		ALL	MISC.
		CONSTR.	BITUM. MIX	CONSTR.	ITEMS
GRADING	MILES	4.193	32.441	36.634	
	COST	1,423,487	1,999,472	3,422,959	162,852
	COST/MILE	339,491	61,634	93,436	
DRAINAGE	MILES	4.193	31.041	35.234	
	COST	182,403	444,833	627,236	141,347
	COST/MILE	43,501	14,330	17,802	
FOUNDATION	MILES	4.193	32.441	36.634	
	COST	510	1,550,301	1,550,811	12,499
	COST/MILE	121	47,788	42,332	
SURFACING	MILES	4.193	32.441	36.634	
	COST	6,540	2,756,292	2,762,832	137,253
	COST/MILE	1,559	84,963	75,417	
RDSIDE DEVEL.	MILES		8.259	8.259	
	COST		253,660	253,660	227,298
	COST/MILE		30,713	30,713	
EROSION CTL.	MILES	4.193	32.441	36.634	
	COST	76,939	184,982	261,921	139,735
	COST/MILE	18,349	5,702	7,149	
TRAFFIC CTL.	MILES	4.193	32.441	36.634	
	COST	2,000	614,287	616,287	1,228,042
	COST/MILE	476	18,935	16,822	
FENCING	MILES	4.193	22.782	26.975	
	COST	41,744	174,542	216,286	41,675
	COST/MILE	9,955	7,661	8,018	
MISC.	MILES	4.193	32.441	36.634	
	COST	1,600	129,792	131,392	162,122
	COST/MILE	381	4,000	3,586	
BRIDGES	SQ. FEET				24,704
	COST				511,576
	COST/SQ. FOOT				20.708
ALL ITEMS	MILES	4.193	32.441	36.634	
	COST	1,735,223	8,108,161	9,843,384	2,764,399
	COST/MILE	413,838	249,935	268,695	



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1973  
PRIMARY SYSTEM

TABLE 4A

JUNE 6, 1974

COST ITEM		SURFACE TYPE			ALL	MISC.
		GRAVEL	BITUM. MIX	CONCRETE	CONST.	ITEMS
GRADING	MILES		67.238		67.238	
	COST		4,268,392		4,268,392	17,047
	COST/MILE		63,481		63,481	
DRAINAGE	MILES		67.238		67.238	
	COST		1,687,847		1,687,847	20,882
	COST/MILE		25,102		25,102	
FOUNDATION	MILES		67.238		67.238	
	COST		2,623,037		2,623,037	259
	COST/MILE		39,011		39,011	
SURFACING	MILES		67.238		67.238	
	COST		2,919,122		2,919,122	5,982
	COST/MILE		43,414		43,414	
RDSIDE DEVEL.	MILES		8.486		8.486	
	COST		234,317		234,317	1,540
	COST/MILE		27,612		27,612	
EROSION CTL.	MILES		67.238		67.238	
	COST		693,445		693,445	8,800
	COST/MILE		10,313		10,313	
TRAFFIC CTL.	MILES		67.096		67.096	
	COST		838,528		838,528	898,725
	COST/MILE		12,497		12,497	
FENCING	MILES		55.005		55.005	
	COST		234,270		234,270	
	COST/MILE		4,259		4,259	
MISC.	MILES		67.238		67.238	
	COST		641,942		641,942	23,403
	COST/MILE		9,547		9,547	
BRIDGES	SQ. FEET					59,800
	COST					1,320,727
	COST/SQ. FOOT					22.085
ALL ITEMS	MILES		67.238		67.238	
	COST		14,140,900		14,140,900	2,297,365
	COST/MILE		210,311		210,311	



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1973  
SECONDARY SYSTEM

TABLE 4C

JUNE 6, 1974

COST ITEM		SURFACE TYPE			ALL CONST.	MISC. ITEMS
		GRAVEL	BITUM. MIX	CONCRETE		
GRADING	MILES		30.334		30.334	
	COST		844,718		844,718	
	COST/MILE		27,847		27,847	
DRAINAGE	MILES		24.089		24.089	
	COST		272,919		272,919	
	COST/MILE		11,329		11,329	
FOUNDATION	MILES		30.334		30.334	
	COST		614,316		614,316	
	COST/MILE		20,251		20,251	
SURFACING	MILES		30.334		30.334	
	COST		1,340,955		1,340,955	
	COST/MILE		44,206		44,206	
RDSIDE DEVEL.	MILES		.197		.197	
	COST		42,055		42,055	
	COST/MILE		213,477		213,477	
EROSION CTL.	MILES		30.334		30.334	
	COST		150,255		150,255	
	COST/MILE		4,953		4,953	
TRAFFIC CTL.	MILES		30.334		30.334	
	COST		283,525		283,525	103,699
	COST/MILE		9,346		9,346	
FENCING	MILES		19.545		19.545	
	COST		135,389		135,389	
	COST/MILE		6,927		6,927	
MISC.	MILES		30.334		30.334	
	COST		188,300		188,300	3,046
	COST/MILE		6,207		6,207	
BRIDGES	SQ. FEET					17,152
	COST					476,299
	COST/SQ. FOOT					27.769
ALL ITEMS	MILES		30.334		30.334	
	COST		3,872,432		3,872,432	583,044
	COST/MILE		127,659		127,659	



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED BY NUMBER OF TRAFFIC LANES  
DURING CALENDAR YEAR 1973

TABLE 5

JUNE 06, 1974

NO. LANES	MILES	COST	COST/MILE
INTERSTATE SYSTEM			
2	9.970	2,493,539	250,104
4	11.228	3,544,393	315,674
TOTAL	21.198	6,037,932	284,834
PRIMARY SYSTEM			
2	65.328	12,458,006	190,699
4	1.910	1,450,822	759,592
TOTAL	67.238	13,908,828	206,859
SECONDARY SYSTEM			
2	24.089	2,685,508	111,482
4			
TOTAL	24.089	2,685,508	111,482
ALL SYSTEMS			
2	99.387	17,637,053	177,458
4	13.138	4,995,215	380,211
TOTAL	112.525	22,632,268	201,131







STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
 PLANNING AND RESEARCH BUREAU  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1973

TABLE 6

INTERSTATE SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X220	1	4,992	116,081	23.253
CONC. PRESTR. GIRD.	X281	1	10,624	214,964	20.234
	X781	1	9,088	180,531	19.864
		3	24,704	511,576	20.708



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
 PLANNING AND RESEARCH BUREAU  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1973

TABLE 6A

PRIMARY I SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
STEEL-CONC. GIRD	X141	1	24,288	469,951	19.349
CONC. PRESTR. GIRD.	X081	5	35,512	850,776	23.957
		6	59,800	1,320,727	22.085



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
 PLANNING AND RESEARCH BUREAU  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1973

TABLE 6C

SECONDARY SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	3,960	99,076	25.019
CONC. PRESTR. GIRD.	X081	3	13,192	377,223	28.594
		4	17,152	476,299	27.769



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
 PLANNING AND RESEARCH BUREAU  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1973

TABLE 6D

ALL SYSTEMS

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	3,960	99,076	25.019
	X220	1	4,992	116,081	23.253
STEEL-CONC. GIRD	X141	1	24,288	469,951	19.349
CONC. PRESTR. GIRD.	X081	8	48,704	1,227,999	25.213
	X281	1	10,624	214,964	20.234
	X781	1	9,088	180,531	19.864
		13	101,656	2,308,602	22.710





STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1973

TABLE 7

MAY 31, 1974

SYSTEM - INTERSTATE

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	.000		
0300-0399	.000		
0400-0499	.000		
0500-0999	.000		
1000-1499	7.768	\$ 2,694,877	\$ 346,920
1500-1999	.000		
2000-2999	13.430	\$ 3,343,055	\$ 248,924
3000-4999	.000		
5000-OVER	.000		
TOTAL	21.198	\$ 6,037,932	\$ 284,834



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1973

TABLE 7A

MAY

31, 1974

SYSTEM - PRIMARY I

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	.000		
0300-0399	11.554	\$ 2,348,166	\$ 203,234
0400-0499	6.533	\$ 1,753,970	\$ 268,478
0500-0999	20.964	\$ 3,476,452	\$ 165,829
1000-1499	11.566	\$ 2,039,527	\$ 176,338
1500-1999	.870	\$ 402,631	\$ 462,794
2000-2999	5.301	\$ 1,044,925	\$ 197,118
3000-4999	9.763	\$ 2,219,835	\$ 227,372
5000-OVER	.687	\$ 623,322	\$ 907,310
TOTAL	67.238	\$ 13,908,828	\$ 206,859



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1973

TABLE 7B

MAY

31, 1974

SYSTEM - SECONDARY

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	20.179	\$ 1,749,481	\$ 86,698
0200-0299	2.507	\$ 491,686	\$ 196,125
0300-0399	.000		
0400-0499	.000		
0500-0999	1.206	\$ 212,291	\$ 176,029
1000-1499	.000		
1500-1999	.000		
2000-2999	.000		
3000-4999	.000		
5000-OVER	.197	\$ 232,050	\$ 1,177,918
TOTAL	24.089	\$ 2,685,508	\$ 111,482



STATE OF MONTANA DEPARTMENT OF HIGHWAYS  
PLANNING AND RESEARCH BUREAU

SUMMARY OF CONTRACTED AND  
NON-CONTRACTED COSTS BY SYSTEM  
DURING CALENDAR YEAR 1973

TABLE 8

MAY 31, 1974

SYSTEM	CONTRACTED COST	NON CONTRACTED COST	TOTAL
INTERSTATE	\$ 12,476,828	\$ 1,391,701	\$ 13,868,529
PRIMARY I	\$ 16,296,335	\$ 2,607,606	\$ 18,903,941
SECONDARY	\$ 4,422,786	\$ 690,370	\$ 5,113,156
OTHER	\$ 19,631	\$ 3,001	\$ 22,632
TOTAL	\$ 33,215,580	\$ 4,692,678	\$ 37,908,258







